BRUHAT BANGALORE MAHANAGARA PALIKE

BILL OF QUANTITIES

NAME OF WORK:- Providing new borewells and CC roads, drains developments in Rachenahalli and other adjusted layout

Sl No.	Modified Qty	Description	Unit	Issued to Technical Manager, KRIDL	
				In Figures	In Words
1	876.54	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications and as per the directions of the Engineer in charge	Cum	207.60	Rupees Two Hundred Seven and Sixty Paise Only
2	113.39	Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications and as per the directions of the Engineer in charge	Cum	5505.64	Rupees Five Thousand Five Hundred Five and Sixty Four Paise Only
	14.14	Qty Above 125%		5989.25	Rupees Five Thousand Nine Hundred Eighty Nine and Twenty Five Paise Only
3	280.78	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per specifications and as per the directions of the Engineer in charge	Cum	7070.20	Rupees Seven Thousand Seventy and Twenty Paise Only
	2.42	Qty Above 125%		7729.67	Rupees Seven Thousand Seven Hundred Twenty Nine and Sixty Six Paise Only

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Sl No.	Modified Qty	Description	Unit	Issued to Technical Manager, KRIDL	
				In Fi`gures	In Words
4	15.61	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and as per the directions of the Engineer in charge	tonne	72326.98	Rupees Seventy Two Thousand Three Hundred Twenty Six and Ninety Eight Paise Only
5	695.06	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,complete as per specifications and as per the directions of the Engineer in charge. (Data Rate)	Sqm	2337.00	Rupees Two Thousand Three Hundred Thirty Seven Only
6	54.00	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete as per specifications and as per the directions of the Engineer in charge	Sqm	5418.00	Rupees Five Thousand Four Hundred Eighteen Only
	48.90	Qty Above 125%		5418.00	Rupees Five Thousand Four Hundred Eighteen Only
7	777.51	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications and as per the directions of the Engineer in charge	cum	1022.74	Rupees One Thousand Twenty Two and Seventy Four Paise Only
8	1547.45	Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications and as per the directions of the Engineer in charge	cum	56.26	Rupees Fifty Six and Twenty Six Paise Only
9	402.23	Stone dust / Grit 4.75 mm to 0.075 mm For Road Strengthening For UGD Cut portion ,complete as per specifications and as per the directions of the Engineer in charge	cum	1060.00	Rupees One Thousand Sixty Only

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Sl No.	Modified Qty	Description	Unit	Issued to Technical Manager, KRIDL	
				In Fi`gures	In Words
10	402.23	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications and as per the directions of the Engineer in charge	cum	2001.28	Rupees Two Thousand One and Twenty Eight Paise Only
11	4420.70	Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications and as per the directions of the Engineer in charge	Sqm	6.36	Rupees Six and Thirty Six Paise Only
12	687.13	Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications and as per the directions of the Engineer in charge	cum	5408.12	Rupees Five Thousand Four Hundred Eight and Twelve Paise Only
13	687.92	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargedof machines,all lead and lift charges etc., complete as per specifications and as per the directions of the Engineer in charge	Cum	5210.96	Rupees Five Thousand Two Hundred Ten and Ninety Six Paise Only

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Sl No.	Modified Qty	Description	Unit	Issued to Technical Manager, KRIDL	
				In Fi`gures	In Words
14	2.00	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., complete as per specifications and as per the directions of the Engineer in charge	Each BW	1938.46	Rupees One Thousand Nine Hundred Thirty Eight and Forty Six Paise Only
15	0.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) complete as per specifications and as per the directions of the Engineer in charge	Rmtr	0.00	Only
	100.00	**0 to 50 m**	Rmtr	315.18	Rupees Three Hundred Fifteen and Eighteen Paise Only
	100.00	**50 to 100 m**	Rmtr	412.00	Rupees Four Hundred Twelve Only
	100.00	**100 to 150 m**	Rmtr	458.35	Rupees Four Hundred Fifty Eight and Thirty Five Paise Only
	100.00	**150 to 200 m**	Rmtr	484.10	Rupees Four Hundred Eighty Four and Ten Paise Only
	100.00	**200 to 250 m**	Rmtr	560.32	Rupees Five Hundred Sixty and Thirty Two Paise Only
	100.00	**250 to 300 m**	Rmtr	600.49	Rupees Six Hundred and Forty Nine Paise Only

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Sl No.	Modified Qty	Description	Unit	Issued to Technical Manager, KRIDL	
				In Fi`gures	In Words
16	140.00	Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe - grade of Steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by baseic open hearth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming tio IS 554/1985, one end fixied with socket confirming to IS 4270:2001 and the other end with screwed pipes ISI Marking weighing 25.10Kg/mtr (Inclusive of all taxes and durties) Prices include Collar-medium duty complete as per specifications and as per the directions of the Engineer in charge	Rmtr	1325.00	Rupees One Thousand Three Hundred Twenty Five Only
17	1080.00	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of GROUP-A. P. No. 12 / 1 No. 2.10.4(1) 3C x 4 Sqm mmcomplete as per specifications and as per the directions of the Engineer in charge	Mtr	126.70	Rupees One Hundred Twenty Six and Seventy Paise Only
18	90.00	Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset shoud be handed over to department including transportation (Each lenth =6.00) complete as per specifications and as per the directions of the Engineer in charge	Per Length	88.00	Rupees Eighty Eight Only
19	2.00	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., complete as per specifications and as per the directions of the Engineer in charge	Each	302.00	Rupees Three Hundred Two Only
20	60.00	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A, complete as per specifications and as per the directions of the Engineer in charge	Mtr	140.40	Rupees One Hundred Forty and Forty Paise Only

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Sl No.	Modified Qty	Description	Unit	Issued to Technical Manager, KRIDL	
				In Fi`gures	In Words
21	60.00	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.complete as per specifications and as per the directions of the Engineer in charge	Mtr	10.80	Rupees Ten and Eighty Paise Only
22	50.00	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete as per specifications and as per the directions of the Engineer in charge	Mtr	85.00	Rupees Eighty Five Only
23	8.00	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV complete as per specifications and as per the directions of the Engineer in charge	Mtr	345.00	Rupees Three Hundred Forty Five Only
24	2.00	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., complete as per specifications and as per the directions of the Engineer in charge	No.	280.00	Rupees Two Hundred Eighty Only
25	2.00	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit … The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia, complete as per specifications and as per the directions of the Engineer in charge	No	2727.00	Rupees Two Thousand Seven Hundred Twenty Seven Only
26	12.00	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.complete as per specifications and as per the directions of the Engineer in charge	No.	180.00	Rupees One Hundred Eighty Only
27	2.00	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32Amps Group A TPN complete as per specifications and as per the directions of the Engineer in charge	No	1547.00	Rupees One Thousand Five Hundred Forty Seven Only

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Sl No.	Modified Qty	Description	Unit	Issued to Technical Manager, KRIDL	
				In Fi`gures	In Words
28	46800.00	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete complete as per specifications and as per the directions of the Engineer in charge	Sq.Cm	0.33	Thirty Three Paise Only
29	675.00	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole.complete as per specifications and as per the directions of the Engineer in charge	Cum	188.00	Rupees One Hundred Eighty Eight Only
30	1500.00	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., complete as per specifications and as per the directions of the Engineer in charge	Rmtr	123.00	Rupees One Hundred Twenty Three Only
31	675.00	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs complete as per specifications and as per the directions of the Engineer in charge	Cum	61.00	Rupees Sixty One Only
32	36.00	Code No.: 3008 Providing 250mm dia PVC Pipe 10kg/cmcomplete as per specifications and as per the directions of the Engineer in charge	Rmtr	2203.39	Rupees Two Thousand Two Hundred Three and Thirty Nine Paise Only
33	2.00	Providing and fixing Borewell Cap and Clamp Set complete as per specifications and as per the directions of the Engineer in charge	Set	1800.00	Rupees One Thousand Eight Hundred Only

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Sl No.	Modified Qty	Description	Unit	Issued to Technical Manager, KRIDL	
				In Fi`gures	In Words
34	2.00	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 25 stage. ATALANTA< SUGNA< CRI, KIRLOSKAR and other Equivalent Pumps complete as per specifications and as per the directions of the Engineer in charge	No	56414.00	Rupees Fifty Six Thousand Four Hundred Fourteen Only
35	520.00	Providing GI Pipe 50 mm 'B' Class Pcomplete as per specifications and as per the directions of the Engineer in charge	m	415.00	Rupees Four Hundred Fifteen Only
36	90.00	Providing Collar 50 mmcomplete as per specifications and as per the directions of the Engineer in charge	No	180.00	Rupees One Hundred Eighty Only
37	2.00	Providing and fixing 50mm nominal bore gun metal non-return complete as per specifications and as per the directions of the Engineer in charge	Nos	1800.00	Rupees One Thousand Eight Hundred Only
38	2.00	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete.- for 50mm dia:complete as per specifications and as per the directions of the Engineer in charge	Each	222.60	Rupees Two Hundred Twenty Two and Sixty Paise Only
39	2.00	Providing outdoor panel upto 15.00 HP complete as per specifications and as per the directions of the Engineer in charge	No.	15500.00	Rupees Fifteen Thousand Five Hundred Only
40	15.00	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 65mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications and as per the directions of the Engineer in charge	Each	2229.18	Rupees Two Thousand Two Hundred Twenty Nine and Eighteen Paise Only

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Sl No.	Modified Qty	Description	Unit	Issued to Technical Manager, KRIDL	
				In Fi`gures	In Words
E1	11.10	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. and as per the directions of the Engineer in charge	Cum	1019.72	Rupees One Thousand Nineteen and Seventy Two Paise Only
E2	0.83	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. and as per the directions of the Engineer in charge	Sqm	5989.25	Rupees Five Thousand Nine Hundred Eighty Nine and Twenty Five Paise Only

Signature of Contractor

Assistant Executive Engineer,
R.R. Nagar, Sub-Division,
KRIDL, BBMP, Bangalore

Executive Engineer
Byatarayanapura Division,
BBMP, Bangalore-92.

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